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01/30/2006 TDAWKINS 00000002 503718 10829494

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## PATENT APPLICATION FEE DETERMINATION RECORD

Substitute for Form PTO-876

Application or Docket Number

10-829,494

APPLICATION AS FILED - PART I

(Column 1)

(Column 2)

**SMALL ENTITY**

**OR**

OTHER THAN  
SMALL ENTITY

FOR	NUMBER FILED	NUMBER EXTRA
<b>BASIC FEE</b> (37 CFR 1.16(a), (b), or (c))		
<b>SEARCH FEE</b> (37 CFR 1.16(k), (l), or (m))		
<b>EXAMINATION FEE</b> (37 CFR 1.16(o), (p), or (q))		
<b>TOTAL CLAIMS</b> (37 CFR 1.16(i))	minus 20 =	*
<b>INDEPENDENT CLAIMS</b> (37 CFR 1.16(h))	minus 3 =	*
<b>APPLICATION SIZE FEE</b> (37 CFR 1.16(u))	If the specification and drawings exceed 100 sheets of paper, the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).	
<b>MULTIPLE DEPENDENT CLAIM PRESENT</b> (37 CFR 1.16(j))		

RATE (\$)	FEE (\$)
X	
X	
TOTAL	

RATE (\$)	FEE (\$)
X	
X	
TOTAL	

\* If the difference in column 1 is less than zero, enter "0" in column 2

APPLICATION AS AMENDED - PART II

(Column 1)

(Column 2)

(Column 3)

SMALL ENTITY

Or

OTHER THAN  
SMALL ENTITY

AMENDMENT A		CLAIMS REMAINING AFTER AMENDMENT		HIGHEST NUMBER PREVIOUSLY PAID FOR	PRESENT EXTRA
	Total (37 CFR 1.16(e))	*	Minus	**	±
	Independent (37 CFR 1.16(f))	*	Minus	***	±
	Application Size Fee (37 CFR 1.16(s))				
FIRST PRESENTATION OF MULTIPLE DEPENDENT CLAIMS (37 CFR 1.16(j))					

RATE (\$)	ADDITIONAL FEE (\$)
1.            "	
2.            "	
TOTAL ADDITIONAL FEE	

SMALL ENTITY	
RATE (\$)	ADDITIONAL FEE (\$)
1 =	
2 =	
TOTAL ADDL FEE	

1.23.06

(C60H8O)

(Column. 2.

1960, 1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 1969, 1970, 1971, 1972, 1973, 1974, 1975, 1976, 1977, 1978, 1979, 1980, 1981, 1982, 1983, 1984, 1985, 1986, 1987, 1988, 1989, 1990, 1991, 1992, 1993, 1994, 1995, 1996, 1997, 1998, 1999, 2000, 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 2181, 2182, 2183, 2184, 2185, 2186, 2187, 2188, 2189, 2190, 2191, 2192, 2193, 2194, 2195, 2196, 2197, 2198, 2199, 2200, 2201, 2202, 2203, 2204, 2205, 2206, 2207, 2208, 2209, 2210, 2211, 2212, 2213, 2214, 2215, 2216, 2217, 2218, 2219, 2220, 2221, 2222, 2223, 2224, 2225, 2226, 2227, 2228, 2229, 2230, 2231, 2232, 2233, 2234, 2235, 2236, 2237, 2238, 2239, 2240, 2241, 2242, 2243, 2244, 2245, 2246, 2247, 2248, 2249, 2250, 2251, 2252, 2253, 2254, 2255, 2256, 2257, 2258, 2259, 2260, 2261, 2262, 2263, 2264, 2265, 2266, 2267, 2268, 2269, 2270, 2271, 2272, 2273, 2274, 2275, 2276, 2277, 2278, 2279, 2280, 2281, 2282, 2283, 2284, 2285, 2286, 2287, 2288, 2289, 2290, 2291, 2292, 2293, 2294, 2295, 2296, 2297, 2298, 2299, 2300, 2301, 2302, 2303, 2304, 2305, 2306, 2307, 2308, 2309, 2310, 2311, 2312, 2313, 2314, 2315, 2316, 2317, 2318, 2319, 2320, 2321, 2322, 2323, 2324, 2325, 2326, 2327, 2328, 2329, 2330, 2331, 2332, 2333, 2334, 2335, 2336, 2337, 2338, 2339, 2340, 2341, 2342, 2343, 2344, 2345, 2346, 2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 2513, 2514, 2515, 2516, 2517, 2518, 2519, 2520, 2521, 2522, 2523, 2524, 2525, 2526, 2527, 2528, 2529, 2530, 2531, 2532, 2533, 2534, 2535, 2536, 2537, 2538, 2539, 2540, 2541, 2542, 2543, 2544, 2545, 2546, 2547, 2548, 2549, 2550, 2551, 2552, 2553, 2554, 2555, 2556, 2557, 2558, 2559, 2560, 2561, 2562, 2563, 2564, 2565, 2566, 2567, 2568, 2569, 2570, 2571, 2572, 2573, 2574, 2575, 2576, 2577, 2578, 2579, 2580, 2581, 2582, 2583, 2584, 2585, 2586, 2587, 2588, 2589, 2590, 2591, 2592, 2593, 2594, 2595, 2596, 2597, 2598, 2599, 2600, 2601, 2602, 2603, 2604, 2605, 2606, 2607, 2608, 2609, 2610, 2611, 2612, 2613, 2614, 2615, 2616, 2617, 2618, 2619, 2620, 2621, 2622, 2623, 2624, 2625, 2626, 2627, 2628, 2629, 2630, 2631, 2632, 2633, 2634, 2635, 2636, 2637, 2638, 2639, 2640, 2641, 26

AMENDMENT #	CLAIMS REMAINING AFTER AMENDMENT	HIGHEST NUMBER PREVIOUS PAID FOR	PRESENT FEE
1	8	20	—
2	6	4	2

Application Size Fee (37 CFR 1.16(s))

FIRST PRESENTATION OF MULTIPLE INDEPENDENT CLAIMS

DATE (S)	ADDITIONAL FILE (S)
1 2	
1 2	

RATE (\$)	ADDITIONAL FEE (\$)
2.00 =	400.00
TOTAL AMOUNT DUE	400.00

\* If the entry in column 1 is less than the entry in column 2, write 10 in column 2.

• If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, enter:

... If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, enter 3.

The "Highest Number Previously Paid For" (Total or Independently) is the highest number found in the appropriate box in column 1.

This collection of information is required by 35 U.S.C. 16. The information is reported to USPTO in order to be used by the USPTO to process an application. Confidentiality is governed by 35 U.S.C. 182 and 183. The information is provided by the patent applicant or inventor for the purpose of gathering, preparing, and submitting the completed application form to the PTO. It is not a requirement depending upon the type of case. Any comments on the amount of time you require to complete this form and/or suggestions regarding the format should be sent to the Trademark Office, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. TELEPHONE: 703/305-6965. FAX: 703/305-6965. E-MAIL: ADDRESS SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

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007/018

**JAN 23 2006****PATENT APPLICATION  
Attorney Docket: 70031106-1****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Ch'ng, et al

Serial No.: 10/829,494

Filed: 4/21/2004

For: Absolute Encoder

Group Art Unit: 2878

Examiner: Wyatt, Kevin S.

**AMENDMENT**Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In reply to the Office Action dated 12/01/2005, in the above-identified patent application, Applicant submits the following Amendments and Remarks. An RCE accompanies this response. Applicant respectfully requests that the following amendments be entered into the above-identified application and that the Examiner reconsider the grounds for rejection stated in the Office Action.

state value track. The above amendments to Claims 5 and 10 make it clear that the state value track is different from the incremental and absolute value tracks. The purpose of the state value track is to provide a mapping between the absolute position and some other variable used by the system connected to the encoder. Ohtomo does not provide any such teaching. Hence, Applicant submits that there are additional grounds for allowing Claims 5 and 10.

Regarding Claims 4 and 9, the Examiner has not pointed to any teaching in Ohtomo of a track constructed from a light sensitive reflective medium as claimed in these claims. Hence, Applicant submits that there are additional grounds for allowing Claims 4 and 9.

The Examiner indicated that Claims 2 and 7 would be allowable if rewritten in independent form. The above amendments provide the required redrafting of these claims.

I hereby certify that this paper is being sent by FAX to 571-273-8300.

Respectfully Submitted,



Calvin B. Ward  
Registration No. 30,896  
Date: Jan. 23, 2006

Avago Technologies, LTD.  
P.O. Box 1920  
Denver, CO 80201-1920  
Telephone (925) 855-0413  
Telefax (925) 855-9214

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AVAGO TECHNOLOGIES, LTD.  
P.O. Box 1820  
Denver, Colorado 80201-1820

ATTORNEY DOCKET NO. 70031106-1

JAN 23 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Ch'ng, et al

Serial No.: 10/829,494

Examiner: Wyatt, Kevin

Filing Date: April 21, 2004

Group Art Unit: 2878

Title: Absolute Encoder

COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria VA 22313-1450

TRANSMITTAL LETTER FOR RESPONSE/AMENDMENT

Sir:

Transmitted herewith is/are the following in the above-identified application:

- ☒ Response/Amendment ☐ Petition to extend time to respond  
☐ New fee as calculated below ☐ Supplemental Declaration  
☒ No additional fee (Address envelope to "Mail Stop Amendments")  
☐ Other: (Fee \$ )

CLAIMS AS AMENDED BY OTHER THAN A SMALL ENTITY						
(1) FOR	(2) CLAIMS REMAINING AFTER AMENDMENT	(3) NUMBER EXTRA	(4) HIGHEST NUMBER PREVIOUSLY PAID FOR	(5) PRESENT EXTRA	(6) RATE	(7) ADDITIONAL FEES
TOTAL CLAIMS		MINUS		= 0	X 50	\$ 0
INDEP. CLAIMS		MINUS		= 0	X 200	\$ 0
<input type="checkbox"/> FIRST PRESENTATION OF A MULTIPLE DEPENDENT CLAIM					+ 360	\$ 0
EXTENSION FEE	1 <sup>st</sup> MONTH 120.00 <input type="checkbox"/>	2 <sup>nd</sup> MONTH 450.00 <input type="checkbox"/>	3 <sup>rd</sup> MONTH 1020.00 <input type="checkbox"/>	4 <sup>th</sup> MONTH 1590.00 <input type="checkbox"/>		\$ 0
OTHER FEES						\$ 0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT						\$ 0

Charge \$ 0 to Deposit Account 60-3718. At any time during the pendency of this application, please charge any fees required or credit any over payment to Deposit Account 60-3718 pursuant to 37 CFR 1.25. Additionally please charge any fees to Deposit Account 60-3718 under 37 CFR 1.16, 1.17, 1.19, 1.20 and 1.21. A duplicate copy of this transmittal letter is enclosed.

Respectfully submitted,

Ch'ng, et al

By

Calvin B. Ward  
Attorney/Agent for Applicant(s)

I hereby certify that this paper is being facsimile transmitted to the Patent and Trademark Office on the date shown below:

Date of facsimile: January 23, 2006

Typed Name: Calvin B. Ward

Signature: 

Reg. No. 30,896

Date: January 23, 2006

Telephone No. 925-855-0413

Rev 1004 (TransAm)